

# HISTORIC AMERICAN ENGINEERING RECORD

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### CHELSEA STREET BRIDGE AND DRAW TENDER'S HOUSE

HAER No. MA-140

Chelsea Street spanning the Chelsea River

Boston

Suffolk County

Massachusetts

Photographer: Martin Stupich

June 1996-September 1997

- |           |   |
|-----------|---|
| MA-140-1  | General view showing bridge setting.<br>VIEW SOUTHEAST  |
| MA-140-2  | General View of north portal and approach spans.<br>VIEW SOUTH  |
| MA-140-3  | Detail, north portal.<br>VIEW SOUTH   |
| MA-140-4  | View of draw span struts and bracing.<br>VIEW SOUTH   |
| MA-140-5  | General view of south portal and counterweight. Tender's house seen west of span.<br>VIEW NORTH               |
| MA-140-6  | View beneath counterweight and machine house through truss members.<br>VIEW NORTH                             |
| MA-140-7  | View through draw span truss and chord members at north end.<br>VIEW NORTH                                    |
| MA-140-8  | Detail of lattice bracing at strut/chord connections.<br>VIEW NORTH   |
| MA-140-9  | Detail of north portal.<br>VIEW NORTH   |
| MA-140-10 | Detail of connection between struts and diagonal lattice bracing with riveted connector plates.<br>VIEW NORTH |
| MA-140-11 | General oblique view of east side of bridge.<br>VIEW NORTHWEST  |

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- MA-140-12    General view of south end of bridge showing portal, counterweight, bascule tower and tenders house.  
VIEW WEST
- MA-140-13    Detail of bascule tower and counterweight; portal arch to left.  
VIEW WEST
- MA-140-14    Detail showing counterweight trunnion at south end of bridge.  
VIEW WEST
- MA-140-15    Detail of counterweight showing pinned swing joint allowing bascule weight to remain vertical during opening and closing.  
VIEW WEST
- MA-140-16    View showing scale of counterweight in relationship to railing and south portal.  
VIEW SOUTHEAST
- MA-140-17    General view of machine house in tower at south end of bridge.  
VIEW NORTHWEST
- MA-140-18    View of superstructure showing machine house in relationship to tender's house.  
VIEW WEST
- MA-140-19    View from below deck showing Pier 2, deck stringers, railing, counterweight and superstructure.  
VIEW WEST
- MA-140-20    View showing connection of lattice posts, struts, braces and bascule trunnion.  
VIEW NORTHWEST
- MA-140-21    View of east side of north section of bascule span showing operating strut.  
VIEW NORTHWEST
- MA-140-22    Detail showing east side operating strut of bascule span.  
VIEW NORTHWEST
- MA-140-23    Builder's Plate, west side, south side of bridge near tender's house.  
VIEW TO NORTHEAST

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- MA-140-24 View of stair's built into diagonal post on west side of draw leading to machine house.  
VIEW SOUTHEAST
- MA-140-25 Detail of cast iron lamp post base with fluted wooden post at top, located at north end  
of bridge.  
VIEW NORTHEAST
- MA-140-26 Detail showing north road span at juncture of bascule span with portal posts.  
VIEW WEST
- MA-140-27 General oblique view of east side of bridge.  
VIEW SOUTHWEST
- MA-140-28 Oblique view showing north span, piers and bascule span.  
VIEW SOUTHWEST
- MA-140-29 Oblique view of east side of bascule span.  
VIEW SOUTHWEST
- MA-140-30 Detail of lower chord resting on H-beam (bearing seat) at southeast corner. Note  
scale.  
VIEW WEST
- MA-140-31 General view of piers showing 1983 repair resulting in different deck chord  
configurations.  
VIEW NORTHWEST
- MA-140-32 Detail of pier showing chords, stringers bearing on bridge seat.  
VIEW WEST
- MA-140-33 East side detail showing splice plate at lower chords bearing on pier.  
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- MA-140-34 North span (Chelsea side) abutment.  
VIEW NORTHWEST
- MA-140-35 Detail of riveted bracing supporting pedestrian sidewalk on east side.  
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- MA-140-36 Low tide view of stone pier with thinner granite wall at center.  
VIEW NORTHWEST

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- MA-140-37    Detail of pier masonry showing stringers resting on bridge seat.  
VIEW NORTH
- MA-140-38    Sub-deck view showing pier, beam stringer and chord connection.  
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- MA-140-39    View of piling supports of tender's house.  
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VIEW EAST
- MA-140-42    South elevation of tender's house on pilings in relationship to bascule draw span.  
VIEW NORTHEAST
- MA-140-43    South and east elevations of tender's house.  
VIEW NORTHWEST
- MA-140-44    Interior view, tender's house, operating console.  
VIEW NORTHEAST
- MA-10x-45    Interior view, tender's house, central room with original matchstick board siding.  
VIEW SOUTHWEST
- MA-140-46    Interior view, tender's house, locker room with original matchstick board siding and  
wooden lockers.  
VIEW EAST

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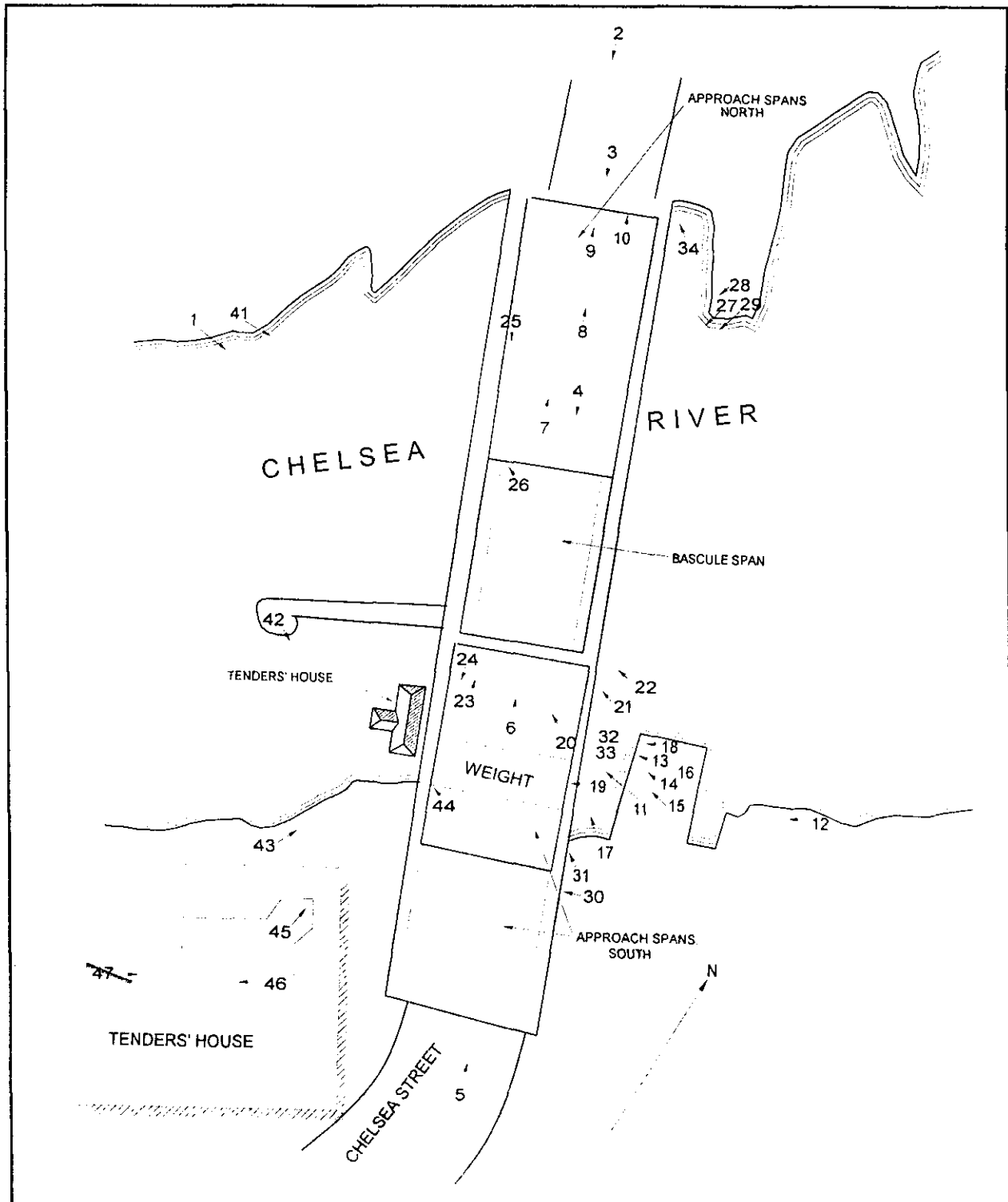


Figure 1 - Photos 1-34 and 41-47 including Tender's House interiors.

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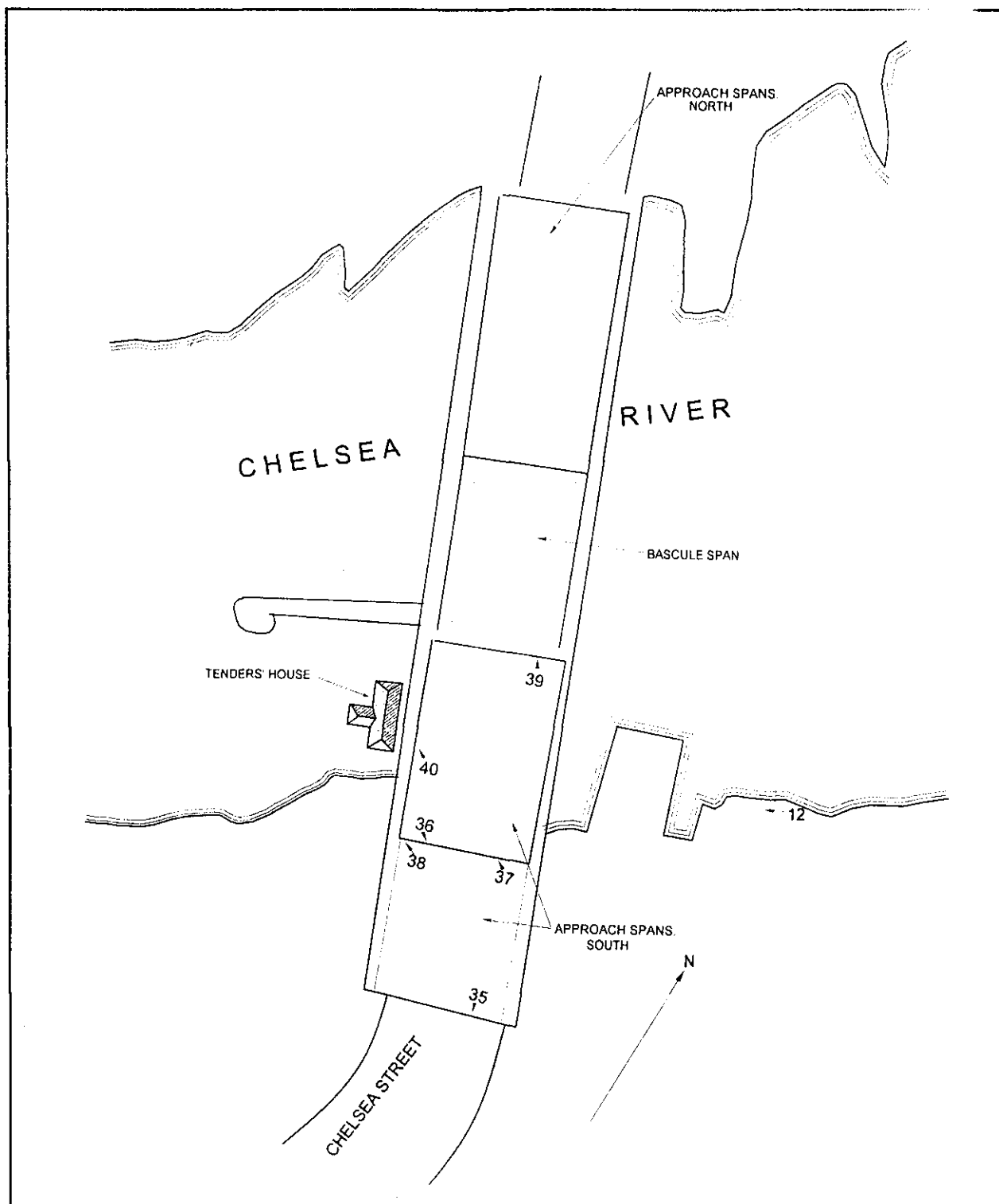


Figure 2 - Photos 35-40 from below deck.